

IN THE CLAIMS

Please cancel claims 1-5 and 15-17. Please add claims 18-43. A marked-up version of the claims showing the changes thereto is included as an attachment.

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18. (New) An information outputting apparatus comprising:

an extractor operable to extract a program clock reference from a received transport stream;

a clock generator operable to generate a clock signal synchronized with said program clock reference;

a time-stamp generator operable to generate an arrival time stamp of transport packet in synchronization with said clock signal;

a formatting unit operable to add said arrival time stamp to the transport packet;

D1 an information generator operable to generate information representative of a transport packet corresponding to discontinuity of the added arrival time stamps in the transport stream; and

a controller operable to control the output of said transport packet on the basis of the information and the arrival time stamp.

Fig 7

Fig 12

not a part of Fig 14

19. (New) The information outputting apparatus according to claim 18, wherein a recording control circuit stores a playback management file of an original playback path corresponding to a transport stream in a storage media unit.

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20. (New) The information outputting apparatus according to claim 19,
wherein said playback management file includes file names, times and addresses
of an edited playback path and locations or points of time at each of which discontinuity of time
stamps is generated.

21. (New) The information outputting apparatus according to claim 20,
wherein a playback control circuit reads out said playback management file from
a storage media unit and supplies a signal for resetting an initial-value-reset control circuit.

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22. (New) An information outputting apparatus comprising:
a time-stamp generator operable to generate sequential time stamp in response to
a clock;
a formatting unit operable to add said time stamp indicating arrival time of each
transport packet to the transport packet;
an information generator operable to generate information indicative of positional
information of the transport packet corresponding to discontinuity of the added time stamps,
wherein said information and the time stamp is utilized to control the output of said transport
packet; and
a recording unit operable to record said positional information along with the
input transport packet.

23. (New) The information outputting apparatus according to claim 22,
wherein a recording control circuit stores a playback management file of an
original playback path corresponding to a transport stream in a storage media unit.

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24. (New) The information outputting apparatus according to claim 23,
wherein said playback management file includes file names, times and addresses
of an edited playback path and locations or points of time at each of which discontinuity of time
stamps is generated.

25. (New) The information outputting apparatus according to claim 24,
wherein a playback control circuit reads out said playback management file from
a storage media unit and supplies a signal for resetting an initial-value-reset control circuit.

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26. (New) An information outputting apparatus comprising:
a time-stamp generator operable to generate an arrival time stamp indicative of
arrival time of received transport packet;
a formatting unit operable to add said arrival time stamp to the received transport
packet; and
an information generator operable to generate information indicating a
discontinuity of the generated arrival time stamp in the transport stream, whereby the output of
the transport packet is controlled on the basis of the information and the arrival time stamp.

27. (New) The information outputting apparatus according to claim 26,
wherein a recording control circuit stores a playback management file of an
original playback path corresponding to a transport stream in a storage media unit.

28. (New) The information outputting apparatus according to claim 27,
wherein said playback management file includes file names, times and addresses
of an edited playback path and locations or points of time at each of which discontinuity of time
stamps is generated.

29. (New) The information outputting apparatus according to claim 28,
wherein a playback control circuit reads out said playback management file from
a storage media unit and supplies a signal for resetting an initial-value-reset control circuit.

30. (New) A method for information outputting, comprising the steps of:
extracting a program clock reference from a received transport stream;
generating a clock signal synchronized with said program clock reference;
generating an arrival time stamp of transport packet in synchronization with said
clock signal;
formatting to add said arrival time stamp to the transport packet;
generating information representative of a transport packet corresponding to
discontinuity of the added arrival time stamps in the transport stream; and
controlling the output of said transport packet on the basis of the information and
the arrival time stamp.

31. (New) A method according to claim 30,
wherein a recording control circuit stores a playback management file of an
original playback path corresponding to a transport stream in a storage media unit.

32. (New) A method according to claim 31,
wherein said playback management file includes file names, times and addresses
of an edited playback path and locations or points of time at each of which discontinuity of time
stamps is generated.

33. (New) A method according to claim 32,
wherein a playback control circuit reads out said playback management file from
a storage media unit and supplies a signal for resetting an initial-value-reset control circuit.

34. (New) A method for information outputting, comprising the steps of:
generating sequential time stamp in response to a clock;
formatting to add said time stamp indicating arrival time of each transport packet
to the transport packet;
generating information indicative of positional information of the transport packet
corresponding to discontinuity of the added time stamps, wherein said information and the time
stamp is utilized to control the output of said transport packet; and
recording said positional information along with the input transport packet.

35. (New) A method according to claim 34,
wherein a recording control circuit stores a playback management file of an
original playback path corresponding to a transport stream in a storage media unit.

36. (New) A method according to claim 35,
wherein said playback management file includes file names, times and addresses
of an edited playback path and locations or points of time at each of which discontinuity of time
stamps is generated.

37. (New) A method according to claim 36,
wherein a playback control circuit reads out said playback management file from
a storage media unit and supplies a signal for resetting an initial-value-reset control circuit.

38. (New) A method for information outputting, comprising the steps of:
generating an arrival time stamp indicative of arrival time of received transport
packet;
formatting to add said arrival time stamp to the received transport packet; and
generating information indicating a discontinuity of the generated arrival time
stamp in the transport stream, whereby the output of the transport packet is controlled on the
basis of the information and the arrival time stamp.

39. (New) A method according to claim 38,
wherein a recording control circuit stores a playback management file of an
original playback path corresponding to a transport stream in a storage media unit.

40. (New) A method according to claim 39,
wherein said playback management file includes file names, times and addresses
of an edited playback path and locations or points of time at each of which discontinuity of time
stamps is generated.

41. (New) A method according to claim 40,
wherein a playback control circuit reads out said playback management file from
a storage media unit and supplies a signal for resetting an initial-value-reset control circuit.

42. (New) A computer program for driving an information outputting apparatus,
comprising instructions for:

extracting a program clock reference from a received transport stream;
generating a clock signal synchronized with said program clock reference;
generating an arrival time stamp of transport packet in synchronization with said
clock signal;
formatting to add said arrival time stamp to the transport packet;
generating information representative of a transport packet corresponding to
discontinuity of the added arrival time stamps in the transport stream; and